COMPETITIVENESS AND OPPORTUNITY

Public/Private Industry Partnerships That Work



Skill Panels Respond to Skilled Worker Shortage

During the last two decades, Washington has seen dramatic growth in knowledge-based industries. Nearly all industries must invest in new technologies to stay competitive. In state and national surveys, employers say they continue to face shortages of skilled workers, despite the recession. Even more troubling, employers say that limited access to a skilled workforce is by far the largest barrier to expansion over the next five years. As the economy begins to recover, workers must be ready to excel in recovering industries. Business, labor, and education have crucial roles in assuring that workers have the skills necessary to keep Washington State competitive. Their active participation in skill panels assures that education and training programs give students the skills they need to ensure Washington's employers' competitive edge.

Initiated by Governor Locke and the the 2000 Legislature, skill panels engage business and industry to devise strategies to close the skill gaps in Washington State. These industry-led panels create public-private partnerships among business and labor representatives from a specific industry and the educators serving that industry. Together, they work to provide:

- Workers with better skills, jobs, and career opportunities.
- Employers with more efficiency, less turnover, and higher profits.
- Expansion of skill standards to meet employer needs.
- Educational programs that address key economic clusters and on-the-job learning strategies.
- Local and state information about employers' skill needs.
- Policy recommendations based on real-time information.

Workforce and Economic Development Innovations

Innovation

Washington State is nationally known for linking economic and workforce development by strategically investing in industry skill panels. Comprised of business, labor, and education, industry skill panels are "think tanks" that focus on the existing and future workforce development needs in key industries. The panels provide forums for discussion with multiple stakeholders who are vested in a particular industry. Skill panels create industry-driven teams that find solutions for short-, mid-, and long-term challenges and opportunities for an industry's workforce. They foster an environment of knowledge sharing among individuals who make recommendations for immediate and future action to a local region, the state, or the Legislature for policy changes necessary to keep an industry's workforce competitive.

In our knowledge-based and ever-changing economy, the public and private sector often have conflicting priorities. Industry skill panels look for common ground, establish common workforce development goals, and implement real-time results for mutual benefit. These cross-functional teams share in the relationship and accountability of a partnership. As the panel matures, partners become more knowledgeable about the industry, staying current with the latest collective developments. In so doing, partners gain a deeper understanding of their own organizations and how other partners perceive them. As they work together, partners get to know each other's organizations and build strong relationships. In successful skill panels, public and private partners build relationships that benefit all partners. The lines between specific organizations blur so people see each partner as an extension of their own organizations: this is a clear indicator of success. Such partnerships foster innovation and give industries and public partners the opportunity to be proactive instead of reactive—addressing changing workforce development needs quickly and competently.

Leadership

One key ingredient to successful skill panels is leadership. Industry skill panels create leaders of many kinds. Leadership in skill panels is shared among partners based on the goal or task being performed. If curricula will be created or updated, industry leaders must be able to effectively communicate what new skills or sets of skills are needed. Workers contribute because of their hands-on expertise. "Industry champions," professionals in a business or business association who understand, and have passion for, linking public and private sector workforce and economic development goals are emerging within all skill panels. They provide a critical link between company CEOs, workers, education, and government.

"Human capital and innovation are fundamental to gaining a competitive advantage in the modern economy. The success of companies, industries, and states increasingly depends on an educated, flexible workforce, their access to new technology, and their ability to rapidly innovate."

- Governor's Competitiveness Council, "Executive Summary," 2002 "For partnering to work means focusing on the process, not personalities. In long-term alliances, you're going to see key players come and go. Not only in your planning process but in your operations process also. If you can keep the focus on the process and keep the level of communications high, you're going to be successful. If you put the focus on personalities and a key player leaves, then you may be setting yourself up for

 Joe McGee, INTEL, and Randa Rosenblum, Federal Express, from *Getting Partnering Right*, Rackham, Friedman & Ruff, McGraw Hill, 1996

failure."

Leadership qualities in a skill panel partnership encompass some of the following:

- A commitment to change
- Systems thinking
- An ability to connect research results and field experience
- A deep knowledge of all stakeholders
- A strong focus on process and mutual goals, rather than personalities
- An ability to show stakeholders where they have common ground
- A high level of communication skills

Partnering comes down to effective communication, openness with one another, and defining clear expectations. Partners must evaluate their own capabilities, assuring they do not over- or under-estimate what they can deliver. A lot of learning and exchange of ideas and information will happen when a partnership is successful.

Trends

Three types of skill panels are emerging.

- Crisis Driven—i.e., Agriculture/Food Processing, Health Care, and Aerospace
- Industries in Transition—i.e., Information Technology, Marine, Construction, Electronics, Manufacturing, and Energy
- Emerging Industries—i.e., Game Software Development and Biotechnology

Although Washington's skill panels are less than three years old, a few of the tangible results include:

 The development of a variety of tools, products, and materials such as curricula, skill standards, assessment tools, and new apprenticeship programs.

- A renewed interest from local media on workforce and economic development topics. Many skill panels have had their efforts highlighted in the press, helping to promote the public workforce system to employers and workers, as well as to promote employers' and workers' needs.
- Industrial or regionally centered research that has provided credible information for both the public and private sector to use to find solutions for skill gaps.
- Shared instructional design and curricula, resulting in the ability of industries with multiple locations to use courses that are consistent throughout the state.

Investments

Washington State investment in skill panels is relatively small. The investment is intended to be seed money to assist an industry in a local region. Facilitators of skill panels are local workforce development councils, community colleges, business associations, and community-based organizations. Virtually all skill panels have used funding from the Workforce Training and Education Coordinating Board to leverage financial support from other public or private resources. Moreover, private investments are being made on a continuing basis. These investments take the form of cash, executive time, wages, benefits, and travel. Skill panels are important strategic investments, aligning workforce and economic development strategies.

This is what seed money is intended to do—provide a jumpstart for an idea, in this case identifying solutions for providing skilled workers in Washington State to keep and attract new business. Linkages are being developed beyond the initial investment. Over the long term, actions from industries and workforce and economic development entities will speak to the power of these initial investments.

The Impact on Business

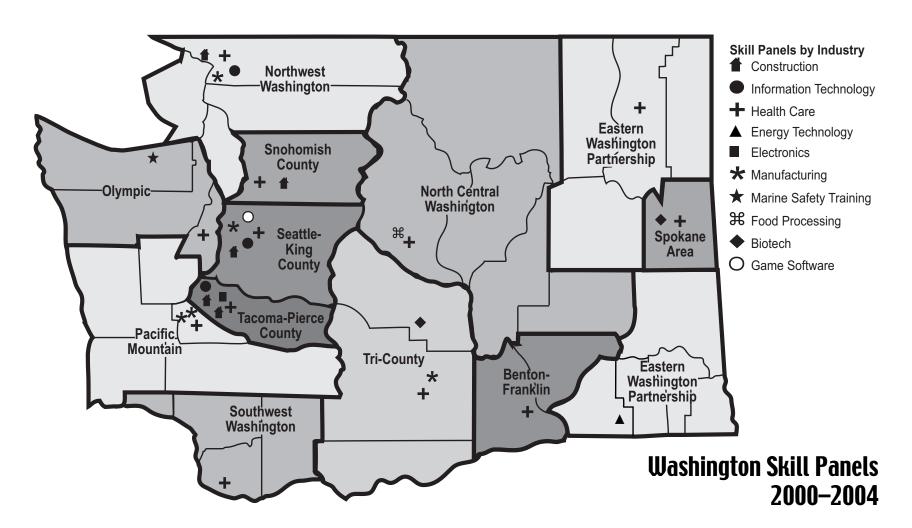
Consumers continually demand more for their money. They want greater variety and better quality—and they do not want to wait. Costs rise for business as technology changes to meet these demands. When times get tough, business spending for training and education shrinks. Business must do more with less.

In skill panels, educators and businesses seek advice from each other in order to produce people trained in the most current skills who are ready to apply those skills quickly. They leverage training dollars still available in companies so more workers can benefit from learning new skills needed by employers. By engaging business in partnerships, the public sector has the advantage of knowing more intimately what is

needed in real time to meet real needs. Technology for all industries has forced every job to change. Businesses and their partners cannot stand still and continue to do what they have always done. Public/private networks built within skill panels give participating companies a competitive advantage.

The Future

It is important to understand that not all skill panels remain in their original form. The work of each skill panel is dictated by industry. Some of the initial work of skill panels has emerged in other local or regional initiatives. In a recent survey of workforce development councils, some local leaders plan to add a new skill panel each year to serve more industries. Others report that skill panels are the best possible marketing tool they have to engage business in the public workforce system. In 2003, the Governor's Joint Economic Vitality Cabinet recommended that three industry clusters—marine trades, agriculture and food processing, and biotechnology—participate in a new model of skill panel to include the entire supply chain: all the businesses that support each industry. This new "cluster-based" model is intended to build on local and state efforts already in place and engage state agencies beyond workforce and economic development. All of the selected industries were initially funded as industry skill panels. The work that took place in those initial panels is being used and expanded within the new models through 2004. This initiative—linking public sector resources and private sector expertise—is a key tool to ensure Washington State's competitiveness in a global economy.



Construction

Tacoma-Pierce County Workforce Development Council

When the Tacoma-Pierce County Workforce Development Council identified construction as one of its five high-demand industries, it had substantial information supporting the formation of a Construction Skill Panel. In 2001, the University of Washington released an employment and economic impact study, finding more than 206,000 workers were employed by contractors, construction services, and construction material suppliers statewide. This figure accounts for 7.7 percent of Washington's workforce, with a total payroll in 2001 of \$8.3 billion. Further data from the Occupational **Employment and Wage Estimates shows that** Pierce County accounts for 10 percent of the state's construction-related employment, which translates to 15,380 positions offering the third highest average wage of \$36,097. These figures, however, do not account for the major workforce shortage anticipated in Pierce County over the next five to 10 years, when 8,720 of the currently employed construction trades professionals are expected to retire.

Considering these statistics, the Pierce County Construction Partnership, with over 48 members representing business, construction associations, labor, apprenticeship, government, economic development, and education, is addressing the primary challenge of an aging workforce with a diminishing pipeline of trained workers. It is also exploring additional challenges unique to construction, including a poor image, the cyclical nature of the industry, working conditions, and physical demands.

Results

- Five-year Pierce County Construction Partnership strategic plan.
- Labor market survey and analysis of construction-related employment in Pierce County and surrounding region.
- Apprenticeship Fair with major area employers, labor, and the Pierce County Building Trades Council.
- Construction career pathways with local training options.
- "Get Electrified" School-to-Apprenticeship summer program with Pierce County schools and the Southwest Washington Electrical Joint Apprenticeship Training Committee.
- Architecture, Construction, and Engineering (ACE) magnet school program with the Puyallup School District offered as a three-year block course offering credits in Math, English, and Construction.

Next Steps

- Exploration of partnerships with construction organizations (American Institute of Architects and the National Association of Women in Construction).
- Vocational English-as-a-Second Language and bilingual workplace communication courses sponsored by the construction partnership, including:
 - Applied Spanish Training for supervisors piloted with Rushforth Construction.

- English/Management training for Spanish-speaking construction workers and Bilingual Instruction for carpenters currently being developed with local colleges.
- Building Your Career awareness campaign to promote the Pierce County construction industry.
- Development of a public policy team, combining efforts with the Health Services Career Council and Pierce County Careers Connection to improve career awareness in K-12 schools.

Want to Know More?

For more information, contact Linda Nguyen at the Tacoma-Pierce County Workforce Development Council, 253-591-5810 or <Inguyen@pic.tacoma.wa.us>.

Electronics

Pierce County Careers Connection

2002 census of high-tech companies identified 75 high-tech and 140 hightech related companies in the South Puget Sound area. More than 75 percent of these companies, along with Pierce and Kitsap County military bases, depend on electronics technicians to maintain production processes, facility operations, and equipment service. Unfortunately, there continues to be a shortage of skilled electronics technicians to fill regional demand. The Bureau of Labor Statistics projects that industry demand for electronics technicians in Washington State will increase by 25 percent from 4,800 in 1998 to 6,050 in 2008. Electronics training programs at community and technical colleges have not been able to keep up with new technologies and the demand for more highly specialized electronics workers. Eleven employers and five community and technical colleges formed a skill panel to evaluate and update the training programs.

Results

- Electronics market research study for Pierce County.
- Drafts of skill standards for two occupational clusters: The Industrial Systems and Electronics Occupational Cluster and Information/Communications Systems Electronics Occupational Cluster.
- Electronics program revisions for two school districts and four community and technical colleges.
- Identification of core sets of competencies shared by both information technology (IT) and electronics occupations.

Next Steps

- Core competency requirements—a single set of competencies to be taught to all potential electronics occupation workers.
- Electronics marketing and outreach to high school students by launching an "Ambassador" program.
- Investigation of the relationship between training workers for IT and electronics occupations to prevent duplication of effort.
- Additional outreach to industry.
- Electronics skill standards.

Want to Know More?

For more information, contact Lisa Pletcher at the Pierce County Careers Connection, 253-984-6002, <Ipletcher@pc3connect.org>, or visit their Web site at <www.pc3connect.org>.

Walla Walla Community College

ashington's ability to compete in the global economy of the 21st century depends on our ability to carry out an energy strategy that will ensure relatively low-cost and reliable electricity. For this reason, the 2002 Washington State Competitiveness Council recommended that the Pacific Northwest should increase electrical transmission lines to meet expected growth in energy demand. Walla Walla is the home to several energy-related organizations. The district office of the U.S. Army Corps of Engineers is located in Walla Walla. Employing about 700 people, the Corps operates five multipurpose hydropower projects in Washington, Oregon, and Idaho. The Army Corps is also working with the Department of Energy in restoration efforts at the Hanford Nuclear Reservation. Walla Walla serves as the Snake River area headquarters for the Bonneville Power Administration, the federal power marketing agency. The Walla Walla office employs 45 people. The area also serves as the growing "stateline wind energy" hub. The Walla Walla Energy Skill Panel was established to enhance the availability of skilled technicians for the energy industry in southeastern Washington by designing appropriate and timely training. This skill panel is comprised of workforce development, business, industry, and labor leaders in southeastern Washington representing the areas of energy production, transmission, conservation, and consumption.

Results

- Market analysis of current and future technical workforce needs in the region's energy industry.
- Energy Systems Technology Skill Standards.
- Energy Systems Technology curriculum and assessment tools.

Next Steps

- Industrial electrician instructional program at Walla Walla Community College to begin in 2004.
- Two instructional program strands emphasizing high voltage electrical motors and instrumentation.
- Alignment with existing apprenticeship programs in the energy industry.
- Additional professional training opportunities for incumbent workers.

Want to Know More?

For more information, contact Don Miller at Walla Walla Community College, 509-527-4639, <donald.miller@wwcc.edu>, or visit their Web site at <www.wwcc.edu>.

Game Software Development

Lake Washington Technical College

ashington's game software development industry has grown at a steady pace over the last two decades. Game development is a new field with very demanding and specific job skill requirements. Companies involved in creating game software and related products struggle to hire sufficient numbers of skilled workers to meet production schedules. Game development firms employ large numbers of specialized workers divided into two skill categories programmers and production workers. The programming staff create the software engines that drive the games, while the technical artists create all game content. While software development teams have remained similar in size for an average game title, the technical art staff has been steadily growing larger. As games get bigger, more technical artists are required to build them. To respond to this demand, Lake Washington Technical College and Mesmer Animation Labs established a skill panel comprised of game developers, several software corporations, four colleges and other educators, and the Seattle-King County Workforce Development Council.

- Results
- Three focus groups of hands-on professionals to itemize the criteria used in the workplace to assess work skills.
- Information Technology-Digital Media Advanced Skill Standards for Electronic Game Content Production for entry-level workers.

- Professionally-driven internship.
- Six complete courseware modules to address entry-level skills.

Next Steps

- Regional game "industry cluster" labor market analysis.
- Strategies to address barriers to expanding high-demand programs at educational institutions and recruiting into the industry.
- Assessment tools to identify skill gaps, skill barriers, individual training plans, basic skill needs, performance measurements, and technical skills.
- Marketing plan and associated marketing materials.

Want to Know More?

For more information, contact Frank Agnello at Lake Washington Technical College, 360-561-4364, <frankagnello@comcast.net>, or visit their Web site at <www.lwtc.ctc.edu>.

Health Care

Washington State's 12 Skill Panels

Vashington State is facing severe shortages of health care workers in nearly all health professions. This shortage threatens the quality and accessibility of health care, the financial stability of the health services industry, and the economic vitality of the state. In 2002, the state Workforce Training and Education Coordinating Board (WTECB) convened the Health Care Personnel Shortage Task Force. The Task Force drew from local, state, and national experiences to develop a statewide plan for the Legislature, state and local agencies, educators, labor, employers, and workers. The plan was published in the January 2003, Health Care Personnel Shortage: Crisis or Opportunity? and is available on line at <www.wtb.wa.gov>. In 2003, the Legislature asked WTECB to continue to convene health workforce leaders to monitor progress on the state plan.

In its report, the Task Force recommended that WTECB provide continuing support to current health care skill panels and expand the formation of panels to cover all 12 workforce development areas. This ensures that all areas of the state can benefit from collaborations among the health industry and educators. Skill panels provide an effective means to identify regional health personnel shortages and develop strategies to address them. The number of partners working on these panels is growing rapidly and currently includes health care employers such as hospitals and clinics, community and technical colleges, and organized labor. As of August 2003, all 12 workforce development councils have active health care skill panels. The newest health care skill panels are in the

workforce development areas of Spokane, North Central (Adams, Chelan, Douglas, Grant, and Okanogan counties), Eastern Washington Partnership (Asotin, Columbia, Ferry, Garfield, Lincoln, Pend Oreille, Walla Walla, and Whitman counties), and Tri-County (Kittitas, Klickitat, and Yakima counties).

Results

- Regional labor market data drawn from industry surveys and covering specific occupational shortages and skill gaps.
- Partnerships with K-12 and postsecondary education to promote health and allied occupations to high school students.
- Marketing of employer tuition reimbursement opportunities and tuition advance funds.
- Leveraging of private and public funding to expand community and technical college health care classes.
- Development of customized training programs for entry-level workers, and bilingual/limited English-speaking populations.
- Expansion of clinical training site capacity and coordination.
- New upgrade training options such as Licensed Practitioner Nurse (LPN) to Registered Nurse (RN) using distance learning programs.
- Web sites to link potential and incumbent workers to the health care career pipeline.

- New labor/management committees established in Pierce County to create the Health Unit Coordinator and Computed Tomography/Magnetic Resonance Imaging apprenticeships approved by the Washington State Apprenticeship and Training Council.
- New radiological technology program offered by a consortia of community and technical colleges, hospitals, and clinics in King County and northwest Washington counties.

Next Steps

- Focus on expanding health care education and training programs through federal, state, and private funding.
- Development of new training options such as LPN to RN upgrade using distance learning.
- Expansion of health care apprenticeship programs.
- Additional financial aid opportunities for incumbent workers.
- Expansion of clinical training site capacity and coordination.
- Partnerships with high school career counselors, health teachers, and career and technical education directors to promote heath occupations.

Want to Know More?

For statewide information, contact Madeleine Thompson at the Workforce Training and Education Coordinating Board, 360-753-5653 or <mthompson@wtb.wa.gov>.

Workforce Training and Education Coordinating Board 2004 http://www.wtb.wa.gov

Health Care Skill Panel Coordination and Support

Western Washington Area Health Education Center Terry Tatko 206-441-7137 terryatwwahec@gwest.net

Eastern Washington
Bettie Rundlett 509-358-7646
rundlett@wsu.edu

Skill Panel Contacts at Workforce Development Councils (WDCs)

Benton-Franklin WDC Donna Noski 509-734-5980 dnoski@bf-wdc.org

Seattle-King County WDC Ed Phippen 206-448-0474 ephippen@seakingwdc.org

Eastern Washington Partnership WDC Tom O'Brien 509-684-8421 tobrien@ruralresources.org.

Snohomish County WDC Kristin Gillisse 425-921-3498 kgillisse@snocowdc.org

North Central WDC Ken Kelnhofer 509-663-3091 kenk@skillsource.org

Southwest Washington WDC Pat Bredeson 360-567-1075 pbredeson@swwdc.org

Northwest WDC Alex Kosmides 360-671-1660 akosmides@nwpic.bellingham.wa.us

Spokane Area WDC John Baumhofer 509-625-6210 jbaumhofer@wdcspokane.com

Olympic WDC Leif Bentsen 360-337-4883 Ibentsen@co.kitsap.wa.us

Tacoma-Pierce County WDC Linda Nguyen 253-591-5810 Inguyen@pic.tacoma.wa.us

Pacific Mountain WDC Jamie Krause 360-754-4113 krausej@co.thurston.wa.us

Tri-County WDC
David Gonzales 509-574-1950
davidg@co.yakima.wa.us

Information Technology

Pierce County Careers Connection

n 2003, there were 10.3 million information technology (IT) jobs in the nation. Although software companies hire many IT workers, nine out of ten are employed by banks, insurance companies, manufacturing firms, or other non-IT businesses. With its large government, trade, and manufacturing sectors, Pierce County's economy includes a healthy number of IT producers and workers. Despite the recent downturn in IT employment, employers continue to complain that they cannot find candidates with the necessary skills and experience. Pierce County Careers Connection created a panel of 10 industry leaders to provide quidance and expertise to Pierce County high school, college, and university IT programs as they increase their capacity to provide high-quality workforce and education training programs.

Results

- Census and labor market analysis of Pierce County's IT industry.
- Eleven articulation agreements enabling students to transfer IT credits from high school to community colleges and fouryear universities successfully.
- IT career guide given to 34,000 Pierce County students.
- Recruitment guide to attract people of color, young women, and nontraditional youth into IT careers.
- Cross-training to over 25 teachers in high-demand IT career clusters.

- InternMatch, a free online internship system (<www.InternMatch.org>).
- Feasibility report for IT apprenticeship program in Pierce County.

Next Steps

Seamless pathway from high school IT course work to college course work to employment.

- Increased IT work-based learning opportunities in Pierce County.
- An IT apprenticeship program in Pierce County.

Want to Know More?

For more information, contact Lisa
Pletcher at the Pierce County Careers
Connection, 253-984-6002,
<|pletcher@pc3connect.org>, or visit their
Web site at <www.pc3connect.org>.

Information Technology

RATEC

At the end of the year 2000, Washington's information technology-based industries accounted for the largest share of employment, business activity, and labor income of any major sector in the state's economic base. In the past several years, a variety of economic and social factors led to a downturn with at least 10,000 jobs lost. Despite this loss, the information technology (IT) sector employs more workers today than it did in 1999. Current IT employment levels have stabilized at about 56,000 jobs. Founded in 1994, RATEC (formerly the Regional Advanced Technology Education Consortium) was formed to meet the continuous need to evaluate the rapidly changing IT workforce demands and facilitate solutions to support an economically competitive region. RATEC has evolved to include both IT creators and IT enabled organizations in its work.

Today, the application of IT spans nearly all sectors. Industries such as agriculture, government, health care, financial services, and biotechnology employ a larger percentage of IT workers than the traditional IT software development sector. Technology-enabled organizations use technology not only to improve processes and efficiency, but also to develop new products and services that will enable Washington companies to remain viable in a global economy. A well educated and trained IT workforce is an essential component to economic recovery and global competitiveness for all organizations, whether they are technology creators or technology enabled.

Results

- "Reconceptualizing a Workforce:
 Challenges and Opportunities for
 Education and Industry." This research
 was conducted to investigate current and
 future IT skill demands across business
 sectors and our state's postsecondary
 educational systems' ability to meet those
 needs through IT-related programs and
 training. This report encompasses
 information regarding:
 - Opportunities and barriers to ITrelated postsecondary education programs.
 - Future business trends for technology innovation and integration.
 - Statewide cross-sector industry data on demand, barriers, and the future of IT skills and educational programs.
- In partnership with Edmonds, Bellevue, and Pierce Community Colleges, RATEC developed a Prior Learning Assessment Portfolio for Information Technology (PLA). PLA is a model that enables community and technical college students to be granted credit based on an assessment of their knowledge and previous work experience.

Next Steps

- Manual outlining alternatives for developing IT skills, illustrating the integration of IT skills across a variety of occupations.
- Online knowledge management system that provides access to information on IT workforce issues, career pathways, emerging IT skill demands, parent/ student resources, and trends in technology innovation and business practices.

 In partnership with the Seattle-area chapter of the Society for Information Management (<www.seasim.org>), RATEC will launch a workforce forum in February 2004 to explore business and technology trends that affect IT education and workforce demands.

Want to Know More?

For more information, contact Joy Howland at 425-564-2192, <jhowland@bcc.ctc.edu>, or visit RATEC's Web site at <www.rateconline.org>.

Manufacturing

Institute for Workforce Development and Sustainability

Accounting for 13 percent of all state employment, which represents over 300,000 workers and 16 percent total wages in the state, manufacturing is a vital and historic component of Washington's economy. In fact, manufacturing continues to support high-wage jobs: the median hourly wage in 2000 was \$18.62, and average manufacturing wages for 2001 exceeded \$48,000 per year, which is the highest of all major industry groups. In the same year, the state's manufacturing employees collectively earned over \$16.4 billion. Manufacturing generates a large number of additional jobs in Washington's economy with large supplier, distribution, and support chain networks.

Manufacturing has experienced an overall decline in recent years. However, relatively little is known about the specific effects of this decline in different industry sectors and economic regions. Fluctuations in manufacturing competitiveness can vary greatly by sector, product type, and market forces. The Association of Washington Business' (AWB) nonprofit arm, the Institute for Workforce Development and Economic Sustainability (IWDES), convened an advisory group to explore opportunities to guide a comprehensive review of manufacturing. IWDES contracted with the Washington State University Social and Economic Sciences Research Center to complete a comprehensive review of manufacturing across 11 subsectors, analyzing trends in small, midsized, and large business, as well as reviewing rural and urban-based manufacturing.

> Workforce Training and Education Coordinating Board 2004 http://www.wtb.wa.gov

Results

"Manufacturing in Washington State, 1990-2002: Trends and Implications for the Industry and State" including conclusions and recommendations about future manufacturing viability in Washington State, which in turn has:

- Provided employment and wage data analysis for 11 of the state's manufacturing subsectors.
- Supported other skill panels connected to the manufacturing industry.
- Influenced proposed formation of a Manufacturing Advisory Group within AWB.

Next Steps

- A two-year Workforce Innovations
 Network (WINs) grant to build business
 membership and engagement with the
 12 workforce development councils.
 WINs is a partnership of the Center for
 Workforce Success of the Manufacturing
 Institute, an affiliate of the National
 Association of Manufacturers; the Center
 for Workforce Preparation, a nonprofit
 affiliate of the U.S. Chamber of
 Commerce; and Jobs for the Future.
- A partnership with Job Corps leaders to promote business involvement with the four centers located in Washington State.

Want to Know More?

For more information, contact Mike Hudson at the Institute for Workforce Development and Sustainability, 360-943-1600 or visit their Web site at <www.awb.org>.

Manufacturing

Shoreline Community College

M anufacturing accounts for nearly all of the Puget Sound region's exports, which make up 87 percent of the state's total exports. Washington State is ranked fifth among states in total exports to the world, making Puget Sound manufacturing vitally important to the nation's balance of trade. In 2000, the Kent Chamber of Commerce contracted with the Herbert Research group to develop a profile of industries in the Kent Valley, determine their productivity, and identify factors that would either preclude them from growth, or cause them to leave the region. This study found not only that over 20 percent of the companies identified a lack of qualified employees as one of their top three constraints to growth, but also that same companies projected 20.7 percent expansion in employment in the next three years.

The Manufacturing Skill Panel was formed to take a closer look at the tremendous workforce needs specific to the Kent area and also in the greater King County and Puget Sound region. In particular, this skill panel convened 12 members of the Kent Chamber of Commerce to focus on the challenges common to small to midsized employers across manufacturing sectors. This group developed strategies to build a workforce training system more responsive to the specific needs of small or midsized manufacturing employers located in the Kent area; defined skill requirements and customized training for the community and technical college system; and developed better tools to determine worker skill attainment

Results

- Alignment of local workforce needs with the Manufacturing Technology Advisory Group (MTAG) national skill standards and WorkKeys assessment tools across the region.
- Modularized manufacturing curriculum based on MTAG skill standards for local community and technical colleges.
- Web site promoting the Shoreline Community College Work Skills Assessment Center, including links to online training programs, professional certification and licensure exams, and WorkKeys workplace skills assessments.
- Marketing campaign promoting Assessment Center as a resource for small and midsized manufacturers located throughout the region.
- Partnership with Renton WorkSource to assess and recruit potential employees.

Next Steps

A \$460,000 two-year grant from the State Board for Community and Technical Colleges to support the Center for Manufacturing Excellence at Shoreline Community College. With industry support, this center will work across manufacturing sectors to provide a modularized manufacturing curriculum system, based on a common core curriculum and skill standards; a system of elective certificates that comprise a range of manufacturing career pathways, including medical equipment, metal trades, biotech, microfabrication; and establish a statewide assessment and certification system for the MTAG core manufacturing skills.

Want to Know More?

For more information, contact Cindi Price at Shoreline Community College, 206-533-6715 or <cprice@ctc.edu>.

Marine and Industrial Safety Training

Peninsula College

nitially, the Peninsula College Skill Panel was formed to assess safety training needs and update safety training curricula specific to the industrial and marine industries of the Olympic Peninsula in order to reduce injuries and costs associated with them. However, as with many skill panels, this panel made an important discovery. After surveying 79 businesses representing marine, corrections, construction, national parks, and manufacturing subsectors of metal and composites, timber and paper mills, and boat builders located in Clallam and Jefferson counties, it learned that many smaller businesses were deficient in providing any safety training to their employees, and several firms did not have a safety plan in place.

The skill panel then broadened its focus to educate these smaller businesses regarding the potential risks of not having effective safety plans and training available. By showing the urgency to correct safety measures, the Peninsula College workforce education staff was able to assess needs and customize safety training across a broader industry scope than the initial project planned.

Results

- Safety training curricula created and revised for several companies located in Forks, Port Angeles, and Port Townsend.
- On-site safety training schedules offered for maximum business flexibility.
- Educational pamphlet for small businesses showing how to establish a simple and cost-effective safety plan and training created.

- Menu of incentives for safety planning and training, including lowered insurance rates and Labor and Industries compliance, was created and distributed.
- Many businesses contracted with Peninsula College to implement safety training programs. Panel members were instrumental in marketing the training program.
- Peninsula College became an involved safety and workforce training partner with the business community and the Clallam netWorks initiative.

Next Steps

Skill panel outcomes and recommendations are being connected to the Marine Services cluster strategy for Clallam, Jefferson, and Kitsap counties as a pilot project of the Governor's Joint Economic Vitality Cabinet. This project will increase coordination among companies, their suppliers and institutions that support the marine industry, and will allow the industry to leverage its assets.

Want to Know More?

For more information, contact Bob Lawrence at Peninsula College, 360-417-6344 or <bobl@pcadmin.ctc.edu>.

Skill Member Roster

Current as of December 2003

Industry Skill Panels

Lake Washington Technical College— Game Software Development

Adrenium

Amaze Entertainment

Aguent

Arena.netA

Atari Humongous

Bellevue Community College

Black Ship

Cascadia College

Cat Daddy Games

Cranky Pants-THQ

DigiPen University

Escape Factory

Game House

Griptonite

KnowWonder

Lake Washington Technical College

Mesmer Animation Labs

Microsoft

Monolith

Nintendo

Outcast Studios

Seattle-King County Workforce

Development Council

University of Washington

Washington Software Alliance

XYZ and You

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Peninsula College—Marine and Industrial Safety Training

Clallam County Economic Development Council

Olympic Labor Council

Pacific Rim Industrial and Marine Energy

WorkSource

Pierce County Careers Connection—Electronics

Bates Technical College

Boeina

Clover Park Technical College

Communication Workers of America

Intel Corp.

Keyport Naval Undersea Workforce Center

Lakewood Automotive Repair

Multicare Health System

Pierce College

Pierce County Careers Connection

Executive Board

Sound Energy Systems

Southwest Washington Electrical

Sumner School District

Tacoma City Light

Tacoma Community College

Tacoma Technology Consortium

Tacoma-Pierce County Economic

Development Board

West Sound Consortium

Pierce County Careers Connection— Information Technology

AppTech, Inc.

Bates Technical College

City of Tacoma

Click Network

Clover Park Technical College

Intel Corp.

Labor Ready

Lively and Partners Consulting Network, Inc.

Local #37083

McChord Airforce Base

Pierce College

Port of Tacoma

Puyallup School District

Russell Investment Group

Sagem Morpho, Inc.

Tacoma Community College

Tacoma Power

Tacoma School District

University of Washington

Washington Department of Transportation

WashTech

RATEC-Information Technology

Asix. Inc.

AT&T Wireless

Bellevue Community College

Dragonfly Ventures

Information Systems Management Group

North Coast Flectric

Paccar

RFI

Soaeti

University of Washington

Washington Dental Service

Washington State University

Weverhaueser

Shoreline Community College—Manufacturing

Amgen

Association of Washington Business

Central Washington University

Crane Aerospace

Electro-Impact

Ellison Machinery Northwest

Fluke

Freightliner

Genie Industries

GM Nameplate

Kenworth Trucking Company

Lake Washington Technical College

Lower Columbia Community College

Manufacturing Technology Advisory Group

Medtronic Physio Control

Mikron Industries

New Market Skills Center

Oberto Sausage

Office of Senator Maria Cantwell

Office of Superintendent of Public Instruction

Philips Medical Systems Heartstream

Puget Sound Center for Manufacturing

Excellence

Renton Technical College

Seattle Jobs Initiative

Shoreline Community College

Starbucks

Washington Manufacturing Services

Washington State University

Western Washington University

Tacoma-Pierce County Workforce Development Council—Construction

Absher Construction

Air Systems Engineering

Associated General Contractors

Bates Technical College

Boeing

City of Tacoma

Clover Park Technical College

Construction Industry Training Council

Department of Labor and Industries

Employment Security Department

Pacific Northwest Regional Council

of Carpenters

Pierce College

Pierce County Apprenticeship Consortium

Pierce County Building and Trades Council

Pierce County Careers Connection

Pierce County Master Builders Association

Puyallup School District

Quality Telecommunications Services

Rushforth Construction

S&W Utility

Small Business Incubator

Sound Transit

Tacoma Community College

Tacoma Housing

Tacoma Plumbing and Heating

Tacoma Public Schools

University of Washington

Western Washington Sheet Metal Joint

Apprenticeship Training Committee

Women's Employment and Education

WorkFirst

WorkSource

Walla Walla Community College-Energy

Army Corps of Engineers

Blue Mountain Action Council

Bonneville Power Administration

Columbia Rural Electric Association, Inc.

Energy Facility Site Evaluation Council

FPL Energy

Inland Northwest Technology Education Center International Brotherhood of Electrical Workers

Milton Freewater Electric Department

Pacific Power

Port of Walla Walla

Teamsters Local #556

Walla Walla Community College

WorkSource

Health Care Skill Panels

Benton-Franklin Workforce **Development Council**

Benton-Franklin Community Health Alliance

Benton-Franklin Health Department

Benton-Franklin Workforce Development

Council

Blue Mountain Community College

Carondelet Mental Health Services

City University

Columbia Basin College

Group Health Cooperative

Hanford Environmental Health Foundation

Kadlec Medical Center

Kennewick General Hospital

Kennewick School District

LaClinica Health Network

Lourdes Health Network

Lourdes Medical Center

Math, Engineering, and Science Achievement

Pasco School District

Prosser Memorial Hospital

Richland School District

Benton-Franklin (cont.)

Service Employees International Union Local #202

Southeast Washington Labor Council

Surgery Center Theresa Quezada

Tri-Cities Cancer Center Tri-Cities Chaplaincy

Tri-Cities Laboratory

Tri-Cities Shared Services

Tri-City Radiology

Tri-County Economic Development District

Tri-Tech Vocational Skills Center

Washington State Nurses Association

Washington State University

WorkFirst

WorkSource

Eastern Washington Partnership Workforce **Development Council**

Area Health Education Center

Blue Mountain Action Council

Blue Mountain Medical Group

Buena Vista Care Facility

Colville Confederated Tribes

Community Colleges of Spokane

Dayton Hospital

Deer Park Hospital

Family Medical Center Ferry County Memorial Hospital

Garfield County Hospital Local #1001

Intercollegiate Center for Nursing

Kettle Falls School District

Lincoln Hospital

Mt. Carmel Hospital

Newport Community Hospital

Northeast Tri-County Health District

Northeast Washington Health Programs

Northeast Washington Medical Group

Odd Fellows Home

Odessa Memorial Hospital

Park Manor Care Center

Partnership for Rural Improvement

Patterson Consulting Services

Pinewood Terrace Nursing Home

Pomeroy School District

Port of Walla Walla

Regency at the Park

Rural Resources Community Action

Spokane Community College

St. Joseph Hospital

St. Mary Medical Center

Sunbridge Care

Tri-County Economic Development District

Tri-State Hospital

United Food and Commercial Workers

Local #1001

Walla Walla Clinic

Walla Walla Community College

Walla Walla County Health District

Walla Walla General Hospital

Walla Walla School District

Washington State Penitentiary

Washington State University

Whitman County Health District

WorkSource

North Central Workforce Development Council

Aging and Adult Care of Central Washington

Big Bend Community College

Central Washington Hospital

Chelan-Douglas Public Health

Columbia Valley Community Health

Colville Tribal Health

Community Choice Healthcare Network

Coulee Community Hospital

Family Health Center Dental Clinic

Grant County Economic Development

Labor and Industries Region 5/

Apprenticeship Office

Lake Chelan Community Hospital

Mattawa Community Medical Clinic

Mid-Valley Hospital

Moses Lake Community Health

North Central Educational Service District

Nurses Local #141

Okanogan Regional Home Health and Hospice

Othello Community Hospital

Port of Chelan

Samaritan Healthcare

SkillSource

Triple C Healthcare

Washington State University School of Nursing

Wenatchee Valley College

Wenatchee Valley Medical Center

WorkSource

Northwest Workforce Development Council

Affiliated Health Services

Bellingham Technical College

East West Consulting

Group Health Cooperative

Interfaith Family Health Center

Island Convalescent Center

Island Hospital

Madrona Medical

Northwest Partnership for Workforce

Development

Northwest (cont.)

Northwest Workforce Development Council

Sea Mar Clinic

Skagit Valley College

Skagit Valley Medical Center

St. Francis Extended Care Facility

St. Joseph Hospital

Washington State Nurses Association

Whatcom Community College

Whidbey General Hospital

Olympic Workforce Development Council

Belmont Terrace

Bremerton School District

Catholic Services

Central Kitsap School District/Career

and Technical Education

Crestwood Convalescent Center

Doctor's Clinic

Dynacare Laboratories

Encore

Eton Technical College

Extendicare

Forks Community Hospital

Frances Haddon Morgan Center

Harbor House

Harrison Hospital

Jamestown S'Klallum Tribe

Jefferson General Hospital

Jefferson Mental Health Services

Kah Tai

Kitsap Dental Society

Kitsap Home Care Services

Kitsap Mental Health Services

Liberty Shores

Lower Elwha Klallum Tribe

Martha and Mary Health Center

North Peninsula Skills Center

Northwoods Lodge

Office of Senator Betti Sheldon

Olympic Care and Rehabilitation Center

Olympic College

Olympic Health Care Alliance

Olympic Medical Center

Olympic Radiology

Orchard Point

Ostrom Management Services

Peninsula College

Peninsula Community Health Services

Peninsula Dental Society

Peninsula Mental Health

PIP Printing

Port Angeles Care Center

Port Gamble S'Klallum Tribe

Quileute Tribe

Ridgemont Terrace Convalescent Center

Sequim School District

Spectrum Healthcare Resources

United Food and Commercial Workers

International Union Local #381

Virginia Mason Medical Center

Washington Veterans Home

West End Outreach

West Sound Technical Skills Center

WorkSource

Pacific Mountain Workforce Development Council

Alpine Way

Capital Medical Center

Centralia College

Choice Medical Network

Employment Security Department

Grays Harbor Central Labor Council

Grays Harbor College

Grays Harbor Community Hospital

Grays Harbor Economic Development Council

J. Grant Enterprise

Mark Reed Hospital

Mason General Hospital

Morton General Hospital

New Market Vocational Skills Center

Office of Superintendent of Public Instruction

Olympic College

Pacific County Economic Development Council

PacifiCorp

Providence Centralia Hospital

Providence St. Peters Hospital

South Puget Sound Community College

Thurston County Economic Development

Council

Washington Workforce Association

Willapa Harbor Hospital

Seattle-King County Workforce Development Council

Bellevue Community College

Children's Hospital and Regional Medical Center

Group Health Cooperative

Harborview Medical Center

Highline Community Hospital

Overlake Hospital Medical Center

Seattle Community College District

Seattle Public Schools

Seattle-King County Workforce Development

Council

Service Employees International Union

Local #1199

Seattle-King County (cont.)

Shoreline Community College Swedish Medical Center University of Washington Medical Center University of Washington School of Nursing Virginia Mason Medical Center Washington State Hospital Association Washington State Nurses Association

Snohomish County Workforce Development Council

Cascade Valley Hospital

Edmonds Community College Everett Community College Group Health Cooperative Northshore Group Health Medical Center Providence-Everett Medical Center Sea Mar Community Health Centers Snohomish County Economic Development Council Snohomish County Workforce Development Council Stevens Health Care Stevens Hospital Sun HealthCare Group The Everett Clinic United Staff Nurses Union Local #141 University Center University of Washington

Spokane Area Workforce Development Council

Valley General Hospital

WorkSource

Skills Center

Area Health Education Center Central Valley School District Eastern State Hospital Eastern Washington University **Empire Health Service** Goodwill Industries Inland Empire Hospital Services Association Inland Northwest Health Services Inland Northwest Technology Education Center Intercollegiate Center for Nursing Education Jones Consulting Karen L. Michaelson and Associates North Idaho College Office of Senator Maria Cantwell Providence Services Eastern Washington Rockwood Clinic Sacred Heart Medical Center Shriner's Hospital Spokane Area Professional Technical

Spokane Area Workforce Development Council Spokane College of Pharmacy Spokane Community College Spokane County Medical Society Spokane Regional Chamber of Commerce Spokane Regional Health District Spokane School District St. Luke's Rehabilitation Institute The Heart Institute United Food and Commercial Workers Local #1001 VA Hospital Washington State University WorkSource

Southwest Washington Workforce Development Council

Cascade Park Care Center Clark College Columbia River Economic Development Council Cowlitz Economic Development Council **Economic Development Task Force Employment Security Department** Family Physicians Group Kaiser Permanente Legacy Health Systems Lower Columbia College Northwest Regional Training Center Providence Health Care Systems Southwest Washington Medical Center Southwest Washington Workforce **Development Council** St. John Medical Center Vancouver Clinic

Tacoma—Pierce County Workforce Development Council

Bates Technical College
Clover Park Technical College
Franciscan Health System
Good Samaritan Community Healthcare
Group Health Cooperative
Madigan Army Medical Center
ManorCare Health Services
MultiCare Health System
Pacific Lutheran University
Pierce College
Pierce County Careers Connection
Rainier Vista Care Center
Tacoma Community College
Tacoma Lutheran Home and Retirement

Community

Tacoma-Pierce County (cont.)

Tacoma-Pierce County Employment and Training Consortium
United Food and Commercial Workers
Local #141

University of Puget Sound University of Washington VA Puget Sound Health Care System Washington Association of Community and Migrant Health Centers Washington State Hospital Association WAVA/Puyallup School District

Western State Hospital

Tri-County Workforce Development Council

Central Washington Family Medicine Heritage College Holtzinger Fruit Indian Health Services

Kittitas Valley Community Hospital Klickitat County Hospital Laborer's International Union #614 Memorial Hospital

Memorial Hospital Providence Hospital Supposide Communication

Sunnyside Community Hospital United Brotherhood of Carpenters Yakima Schools Foundation

Yakima Valley Community College Yakima Valley Farm Workers Clinic

Workforce Training and Education Coordinating Board

The Workforce Training and Education Coordinating Board is Washington State's valued and trusted source of leadership for the workforce development system.

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Rick Bender
Representing Labor

Terry Bergeson
Washington State Superintendent of Public Instruction

Don Brunell Representing Business

Earl Hale
Washington State Board for Community and Technical Colleges

Julianne Hanner Representing Business

Tony Lee Representing Targeted Populations

Asbury Lockett

Representing Business

John McGinnis *Representing Labor*

Sylvia Mundy
Washington State Employment Security Department

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Dennis Braddock Secretary, State Department of Social and Health Services

> Vacant Representing Local Elected Officials

> > Ellen O'Brien Saunders



WASHINGTON STATE

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